

<h1 style="margin: 0;">APICAL</h1> <p style="margin: 0;">INDUSTRIES, INC.</p>	ENGINEERING CHANGE NOTICE NO. 04250				SHEET 1 OF 3	
	DWG NO. 647.3900		REV: B		PREPARED BY J. SOTO	
	DATE: 11/18/2013					
	EFFECT ON DWG <input checked="" type="checkbox"/> INC. <input type="checkbox"/> UNINC.					
DWG TITLE: DEFLECTORS						
APPROVED BY: ENGR <i>[Signature]</i>		MFG <i>[Signature]</i>		QC <i>[Signature]</i>		EFF. NEXT ORDER
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE		REASON: REVISED PART 647.3915 INTO ASSY 647.3903. REVISED SHEET 7 AND ADDED SHEETS 8, 9, 11, 12. ADDED NOTES 7-9. REVISED F/N 3-9 AND ADDED F/N 10-13. ADDED NOTE 7 IN ORDER TO HANG PARTS FOR FINISHING PURPOSES. FIXED NOTES ON ASSY 647.3901				
						ECR: 13-038, 12-026

## SHEET 1, ZONE C7 WAS:

### NOTES:

- 1 MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12.
- 2 FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III, CLASS 2, COLOR BLACK;  
PRETREAT PR-148 ADHESION PROMOTER  
PRIME IAW MIL-P-23377J TYPE I CLASS N; 1-2 MIL MAX.
3. DEBURR AND BREAK ALL SHARP EDGES.
4. IDENTIFY IAW MPP-120.
- 5 APPLY F/N 3 AS REQUIRED TO ALL FAYING SURFACES OF F/N 6, 7 & 8 UPON ASSY.
- 6 MAXIMUM OR MINIMUM DIMENSION AFTER FINISH.

WAS

12	A	601.3072	6				RIVET	CR3213-6-9	
11	C	647.3917	2				DOUBLER		
10	C	647.3916	1				DEFLECTOR, UPPER HALF	△	△2
9	R	647.3915	1				DEFLECTOR, LOWER HALF	△	△2
8	R	647.3914		1			BREAKAWAY TIP LONG	△	△2△9
7	R	647.3913			1		BREAKAWAY TIP MEDIUM	△	△2△9
6	R	647.3912		1	1		LOWER DEFLECTOR	△	△2△9
5	R	647.3911					212 UPPER DEFLECTOR	△	△2△9
4	R	647.3910					412 UPPER DEFLECTOR	△	△2△9
3	R	601.2045	A/R	A/R	A/R		RTV, LOCTITE 598		△5
	C	647.3903	X				DEFLECTOR ASSY		△8
F/N	TC	PART NUMBER	.3903	.3902	.3901				
			QTY				DESCRIPTION	MATERIAL	SPECIFICATION

DOCUMENTS EFFECTED:

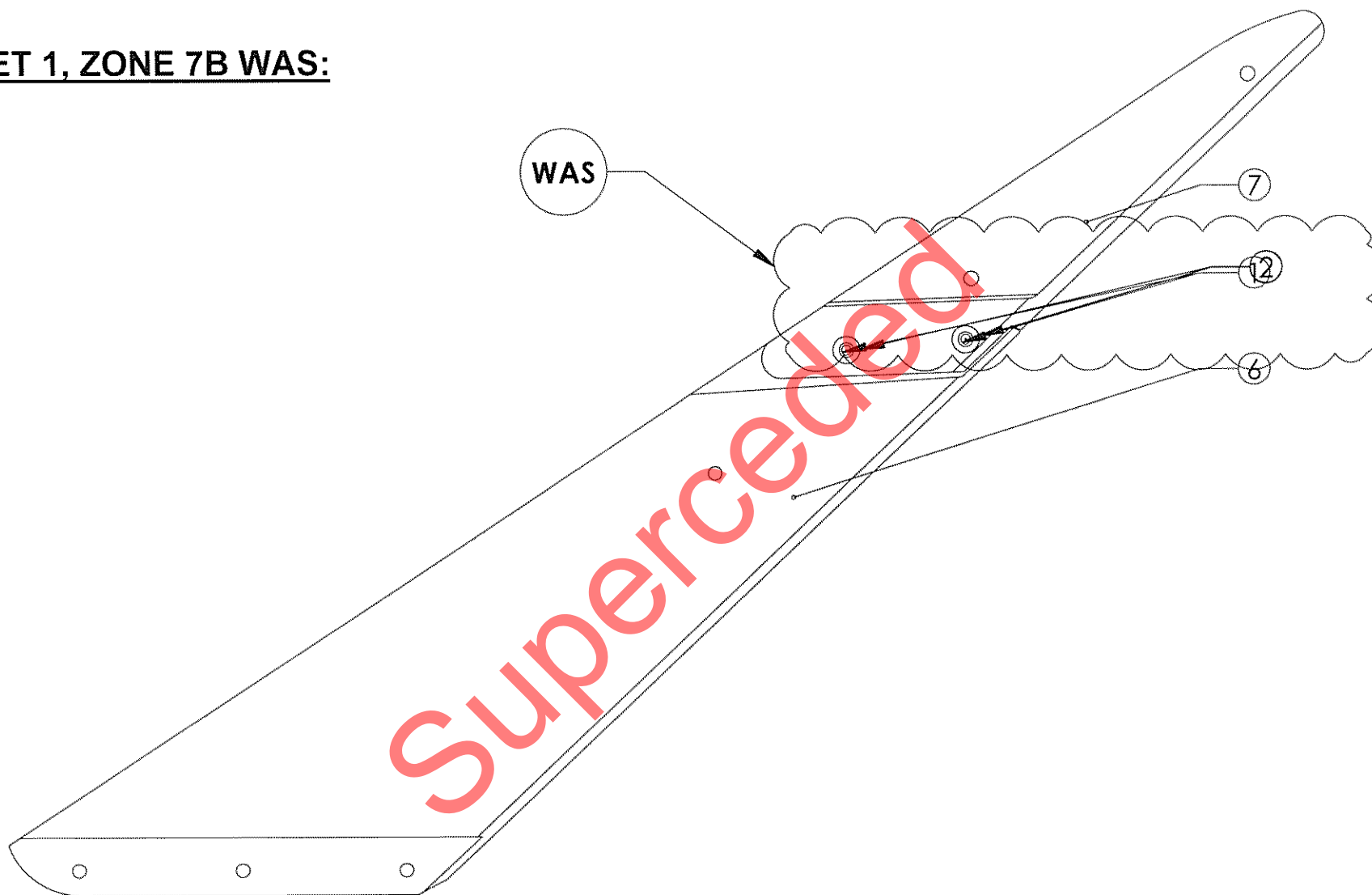
☐ MDL
 ☒ INSTALL INSTRUCTIONS
 ☒ ICA
 ☐ FMS
 ☒ BOM

CHANGE CATEGORY

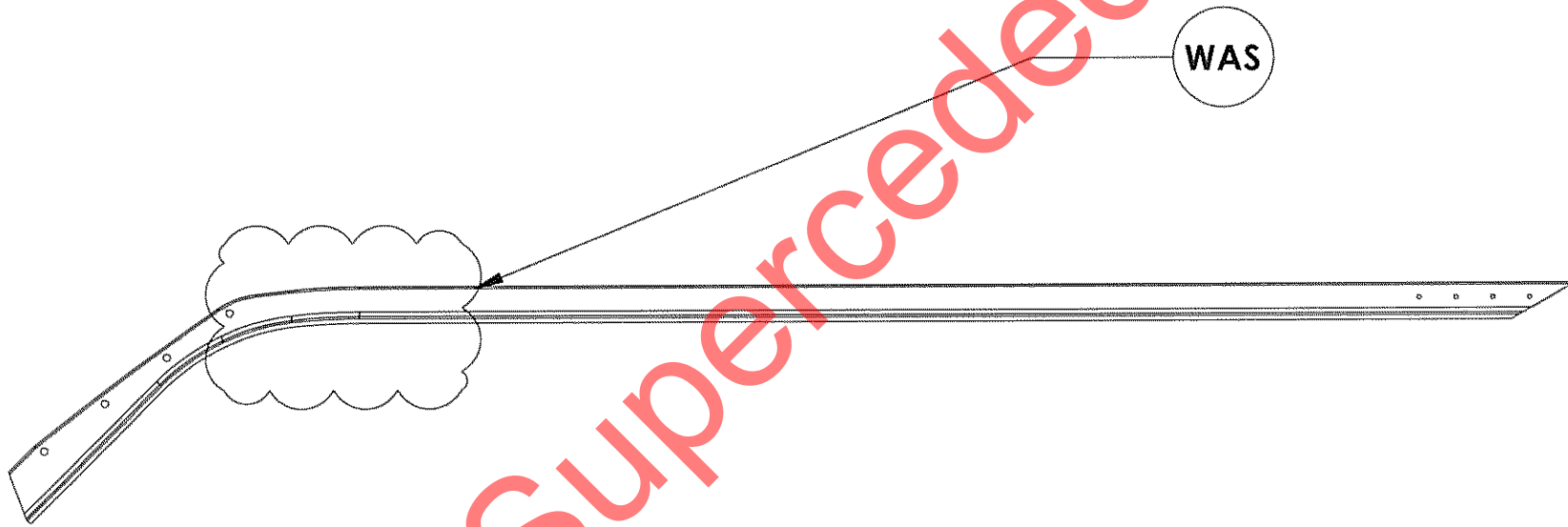
☐ MAJOR
 ☒ MINOR

DER REVIEW REQUIRED

☐ YES
 ☒ NO

**SHEET 1, ZONE 7B WAS:**

647.3901

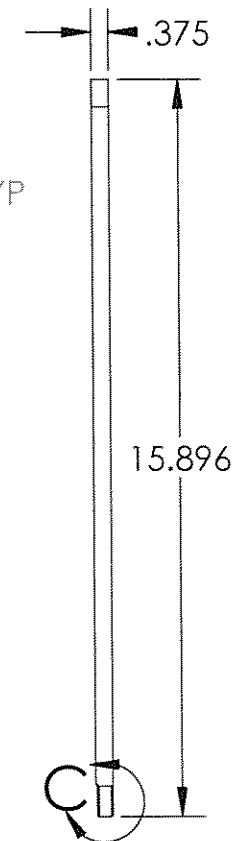
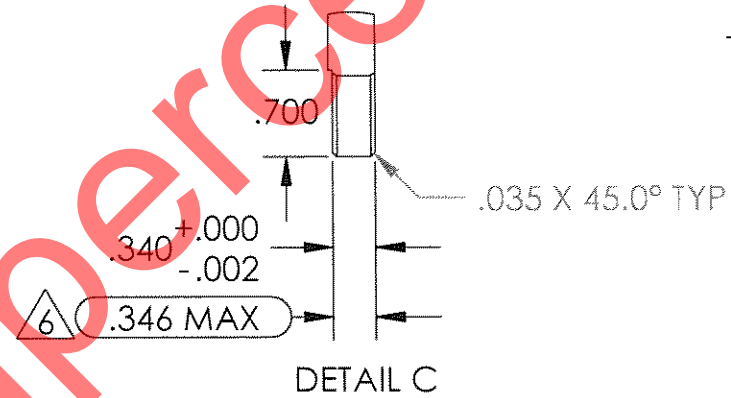
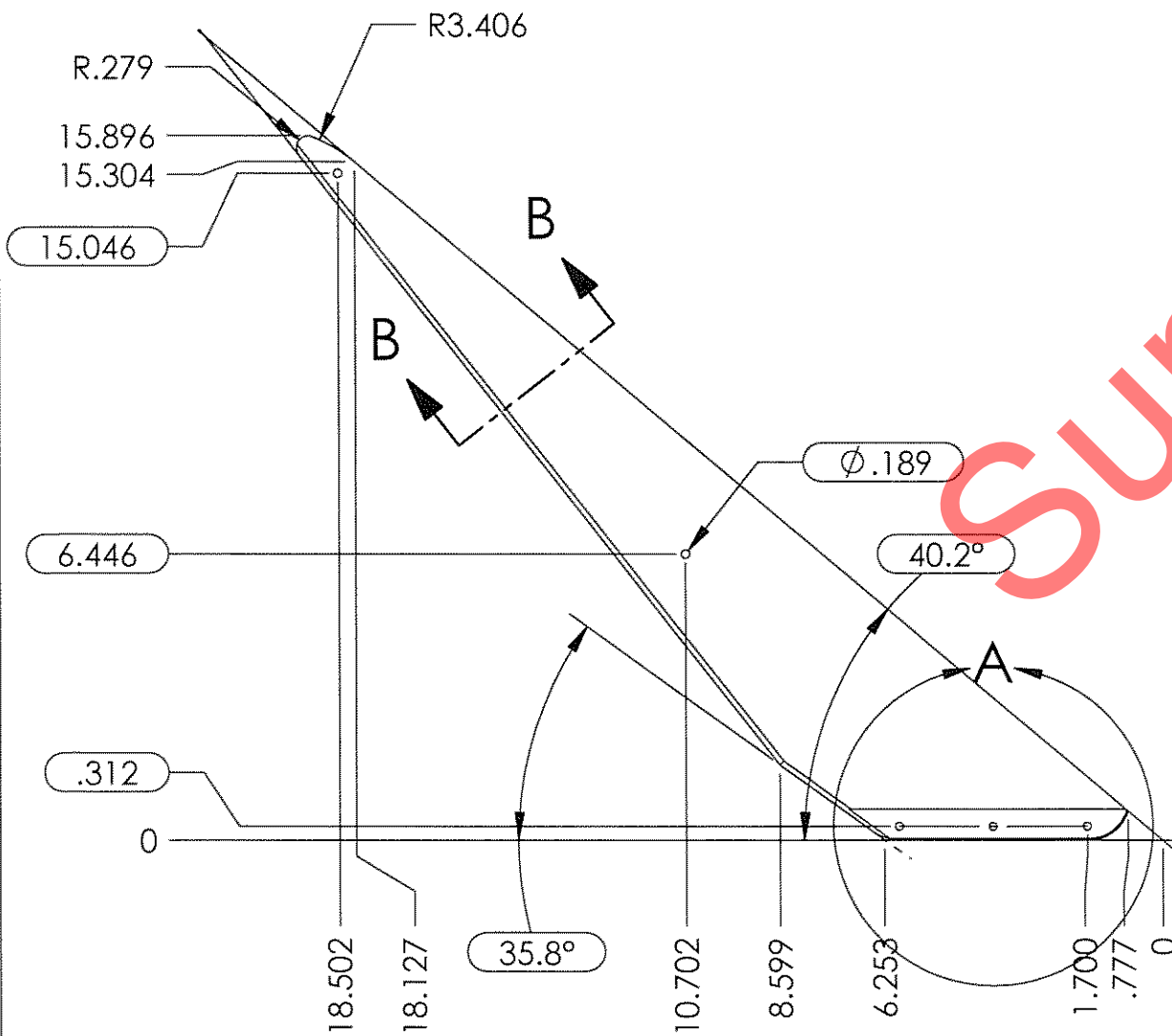
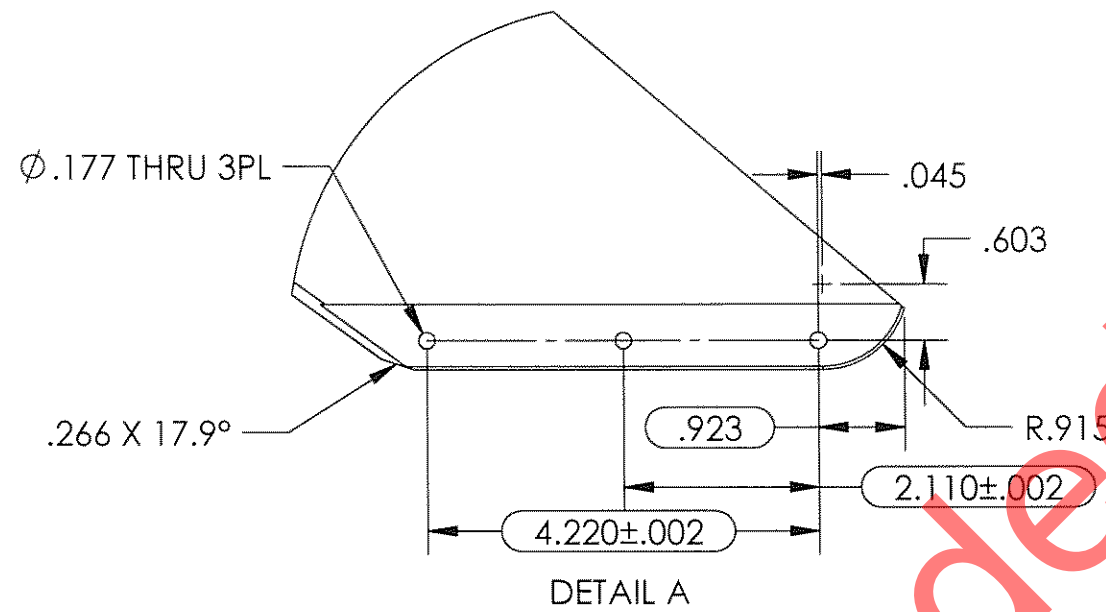
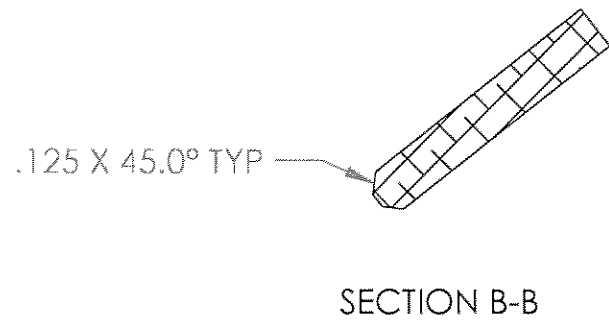
**SHEET 7, ZONE A6 WAS:**

647.3915

9 FINISH: PRETREAT PR-148 ADHESION PROMOTER,  
PRIME IAW MIL-P-23377J, TYPE I, CLASS N;  
1-2 MIL MAX.

QTY		ORIGINAL DATE (MO-DA-YR)		PARTS LIST			
NEXT ASSY (S)		DRAWN BY D.SCHUR		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300			
647.3800		CHECKER D.BARKER					
		DRAWING APPROVAL P. BRAYO 09-10-09		DEFLECTORS			
		CONTRACT NO.					
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE	CAGE CODE	DWG. NO.	REV.
				B	07M26	647.3900	C
		SCALE NONE				SHEET 1 OF 12	

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647.3911

ORIGINAL DATE  
IMO-DA-YR 09-10-09  
DRAWN BY  
D.SCHUR  
CHECKER  
D.BARKER  
DRAWING APPROVAL  
P. BRAYO  
09-10-09  
CONTRACT No.

UNLESS OTHERWISE SPECIFIED  
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TOLERANCES ARE:  
2 PLACE DECIMALS ±.01  
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ANGLES ±.5°

APICAL INDUSTRIES  
2608 TEMPLE HEIGHTS DR.  
OCEANSIDE, CA. 92056-3512 (760)724-5300

DEFLECTORS

SIZE	CAGE CODE	DWG. NO.	REV.
B	07MZ6	647.3900	C

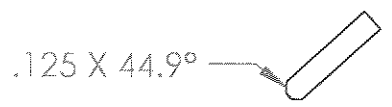
SCALE NONE SHEET 2 OF 12



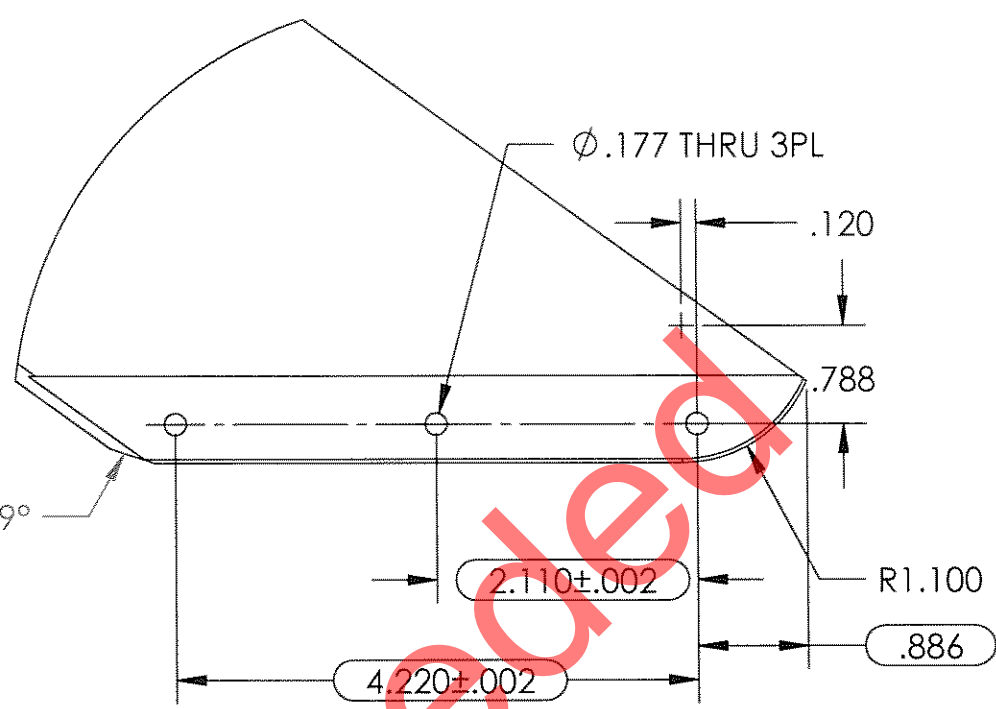
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A  
B  
C  
D

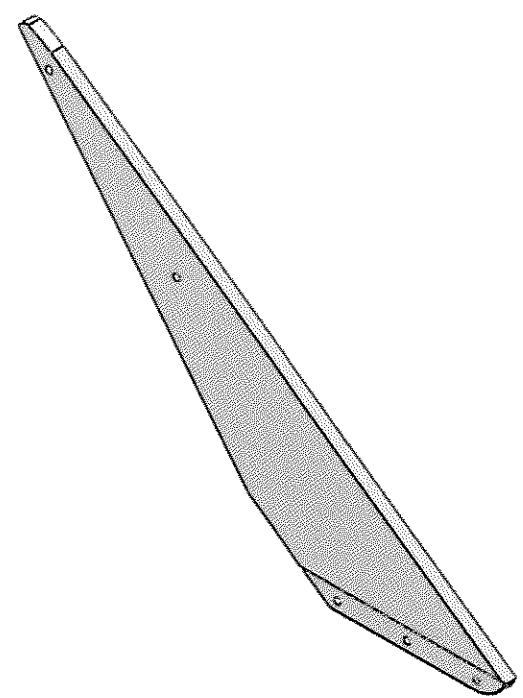
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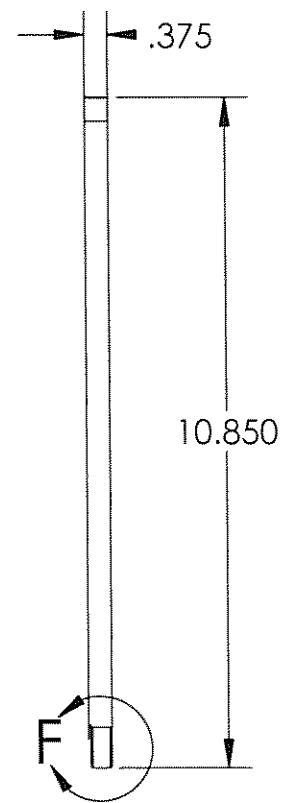
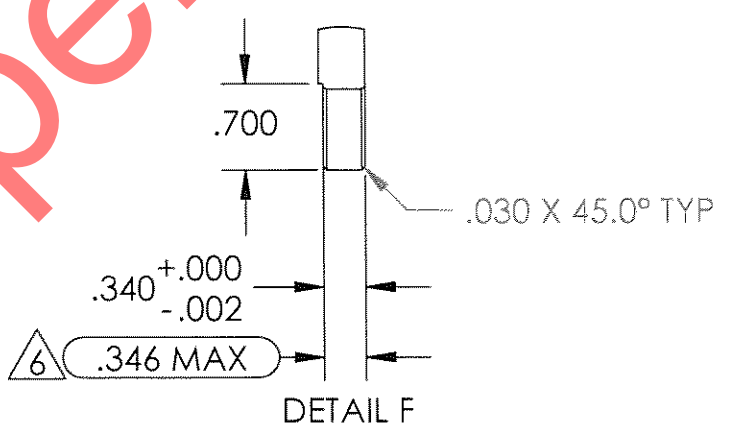
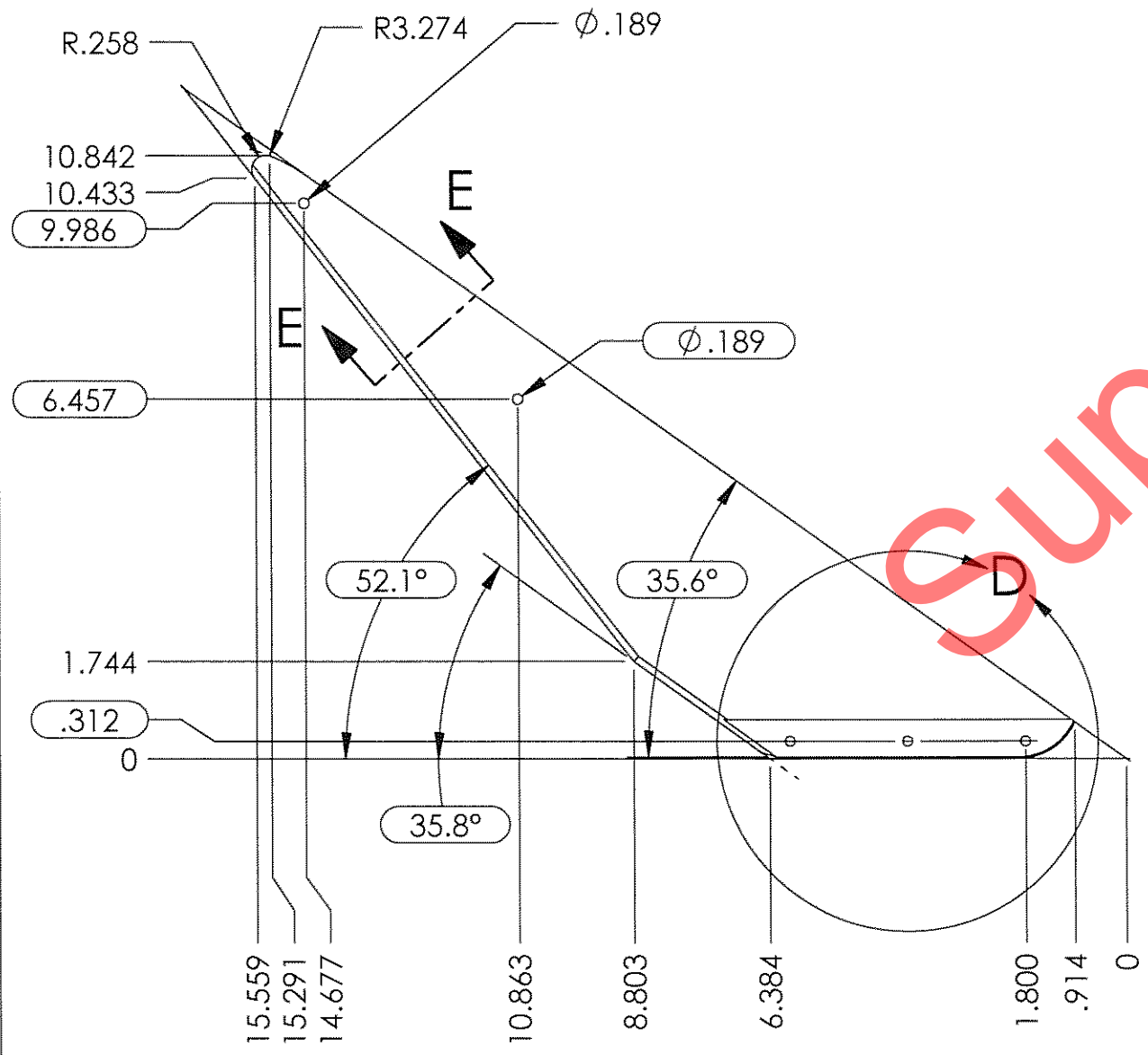
SECTION E-E



DETAIL D

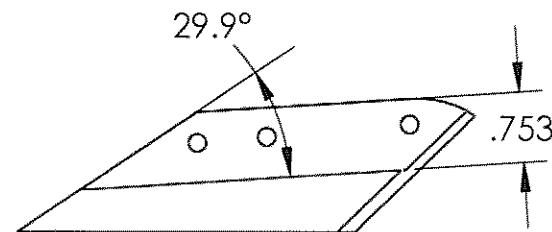


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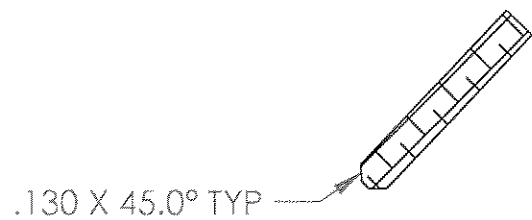


ORIGINAL DATE (MO-DA-YR) 09-10-09		APICAL INDUSTRIES	
DRAWN BY D.SCHUR		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKER D.BARKER		DEFLECTORS	
DRAWING APPROVAL P. BRAVO		SIZE B	REV. C
CONTRACT No.		CAGE CODE 07M26	DWG. NO. 647.3900
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SCALE: NONE	SHEET 3 OF 12

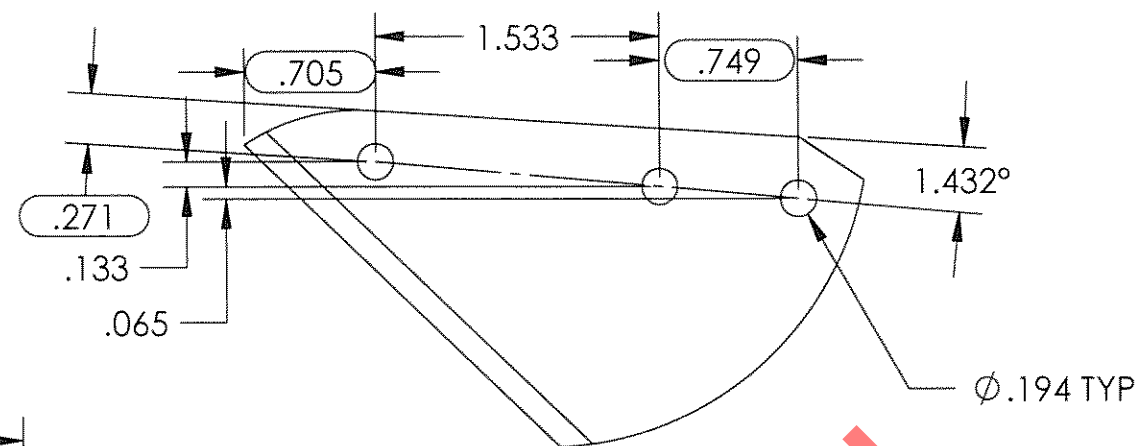
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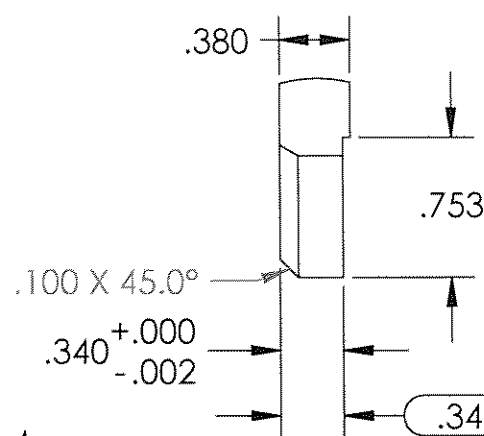
SECTION L-L



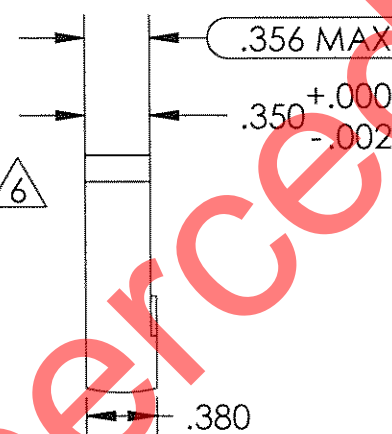
SECTION M-M



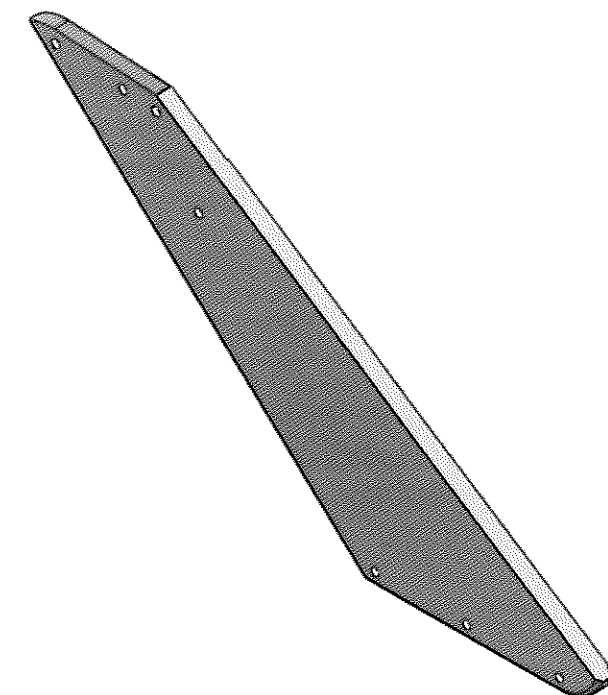
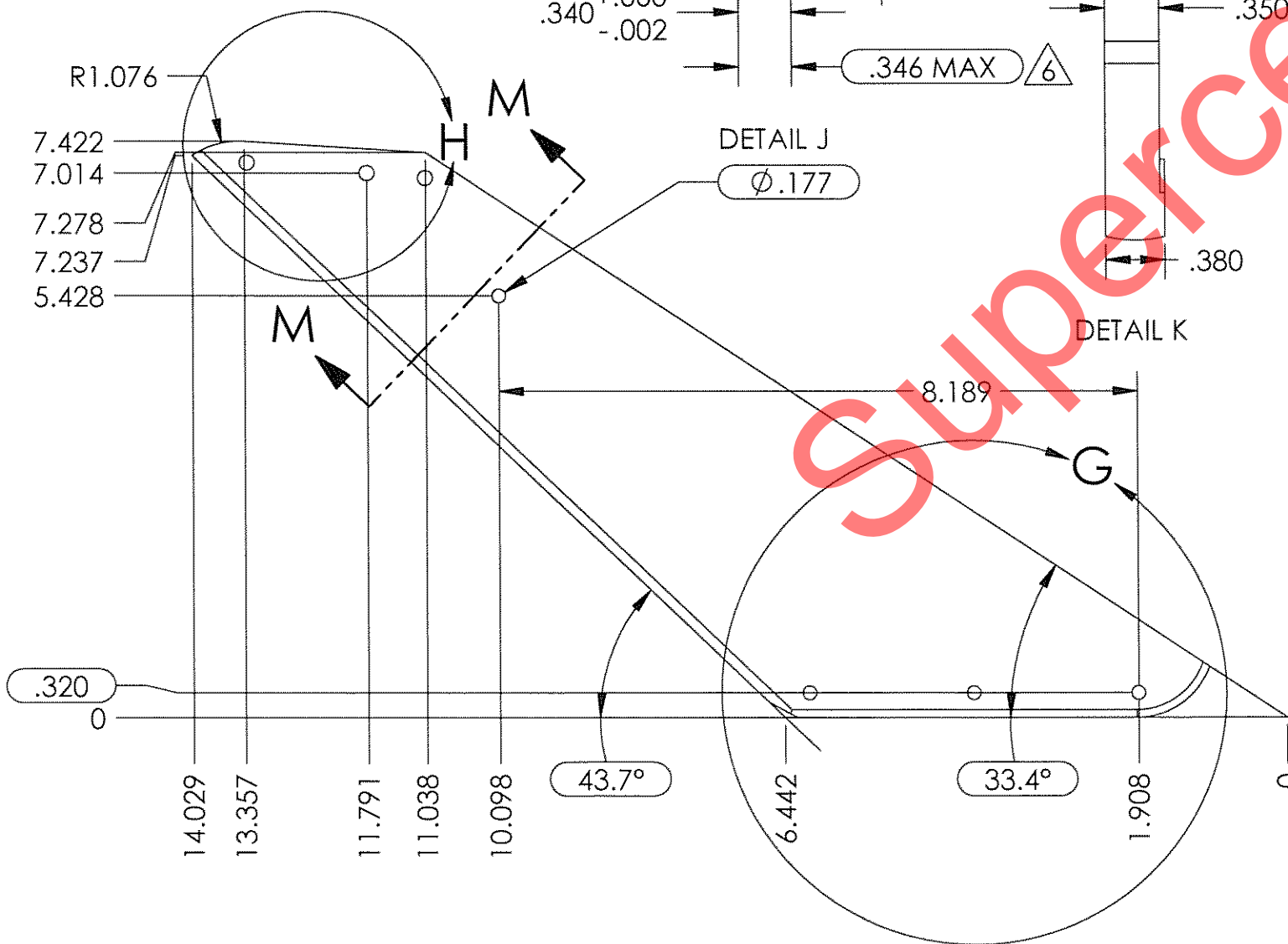
DETAIL H



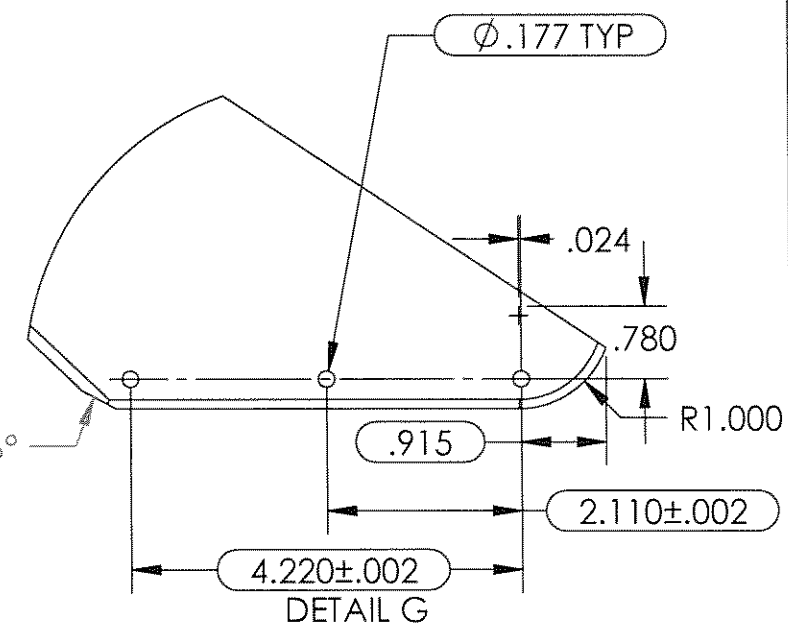
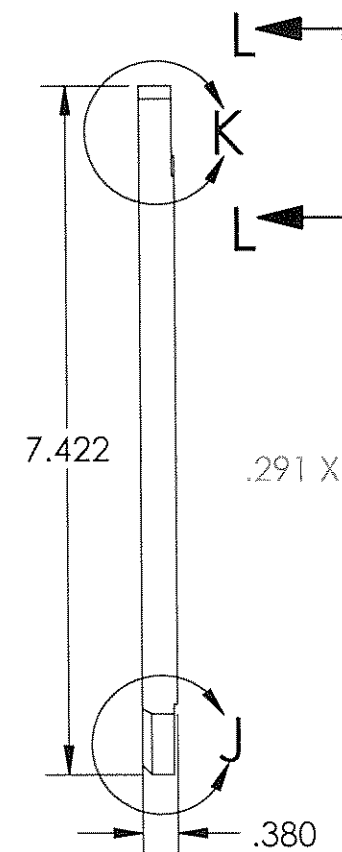
DETAIL J



DETAIL K



647.3912



ORIGINAL DATE  
IMQ-DA-YR 09-10-09  
DRAWN BY  
D.SCHUR  
CHECKER  
D.BARKER  
DRAWING APPROVAL  
P. BRAVO  
09-10-09  
CONTRACT No.

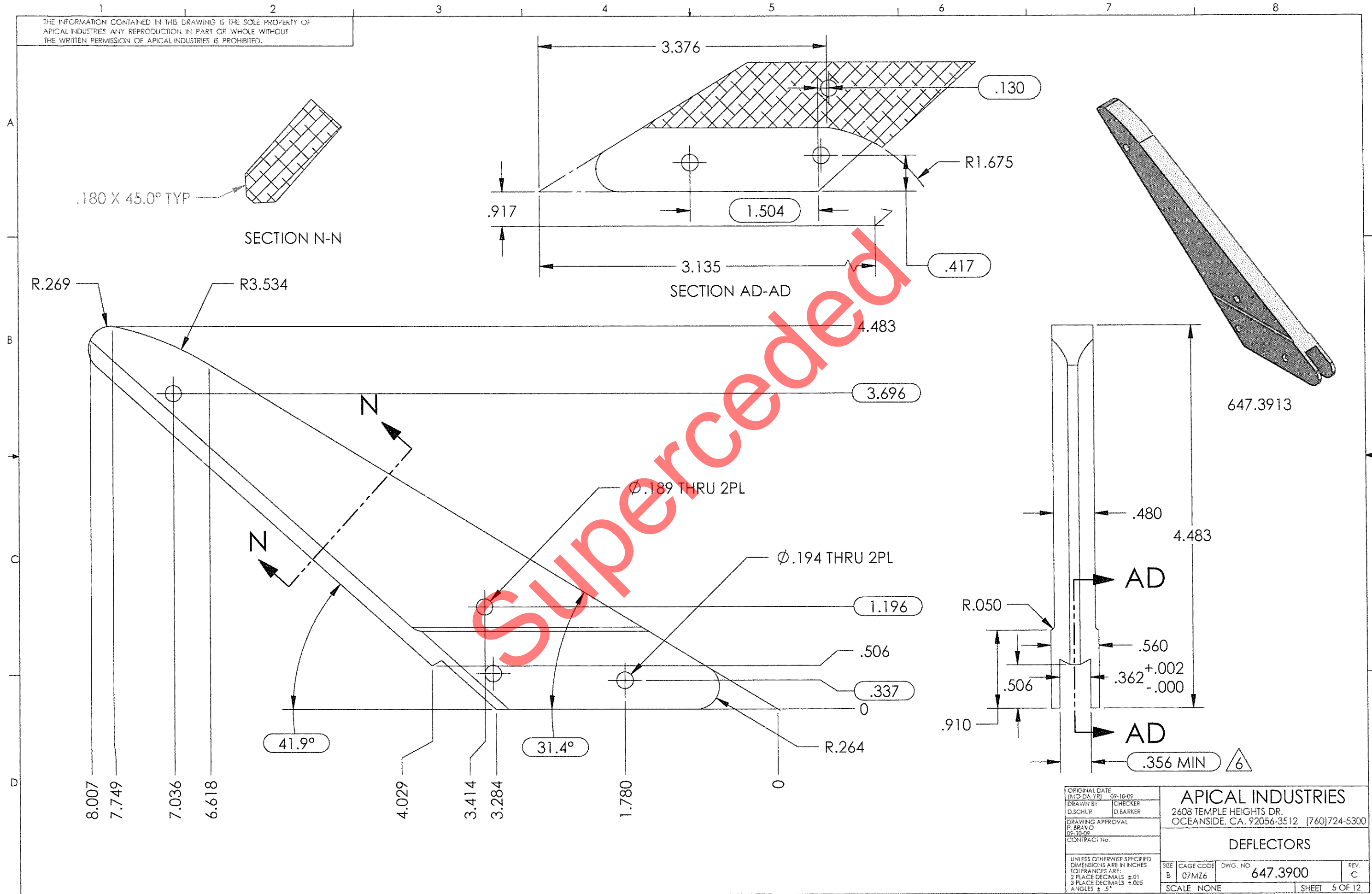
UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES ARE:  
2 PLACE DECIMALS ± .01  
3 PLACE DECIMALS ± .005  
ANGLES ± .5

APICAL INDUSTRIES  
2608 TEMPLE HEIGHTS DR.  
OCEANSIDE, CA. 92056-3512 (760)724-5300

DEFLECTORS

SIZE	CAGE CODE	DWG. NO.	REV.
B	07MZ6	647.3900	C
SCALE NONE			SHEET 4 OF 12

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ORIGINAL DATE (MO-DA-YR) 09-10-09		APICAL INDUSTRIES	
DRAWN BY D.SCHUR		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKER D.BARKER		DEFLECTORS	
DRAWING APPROVAL P. BRAVO		DWG. NO. 647.3900	
09-10-09		REV. C	
CONTRACT NO.		SCALE NONE	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SHEET 5 OF 12	



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.175 X 45.0° TYP

SECTION T-T

SECTION AB-AB

647.3914

8.618

AB

AB

ORIGINAL DATE  
(MO-DA-YR) 09-10-09  
DRAWN BY  
D.SCHUR  
CHECKER  
D.BARKER  
DRAWING APPROVAL  
P. BRAVO  
09-10-09  
CONTRACT NO.

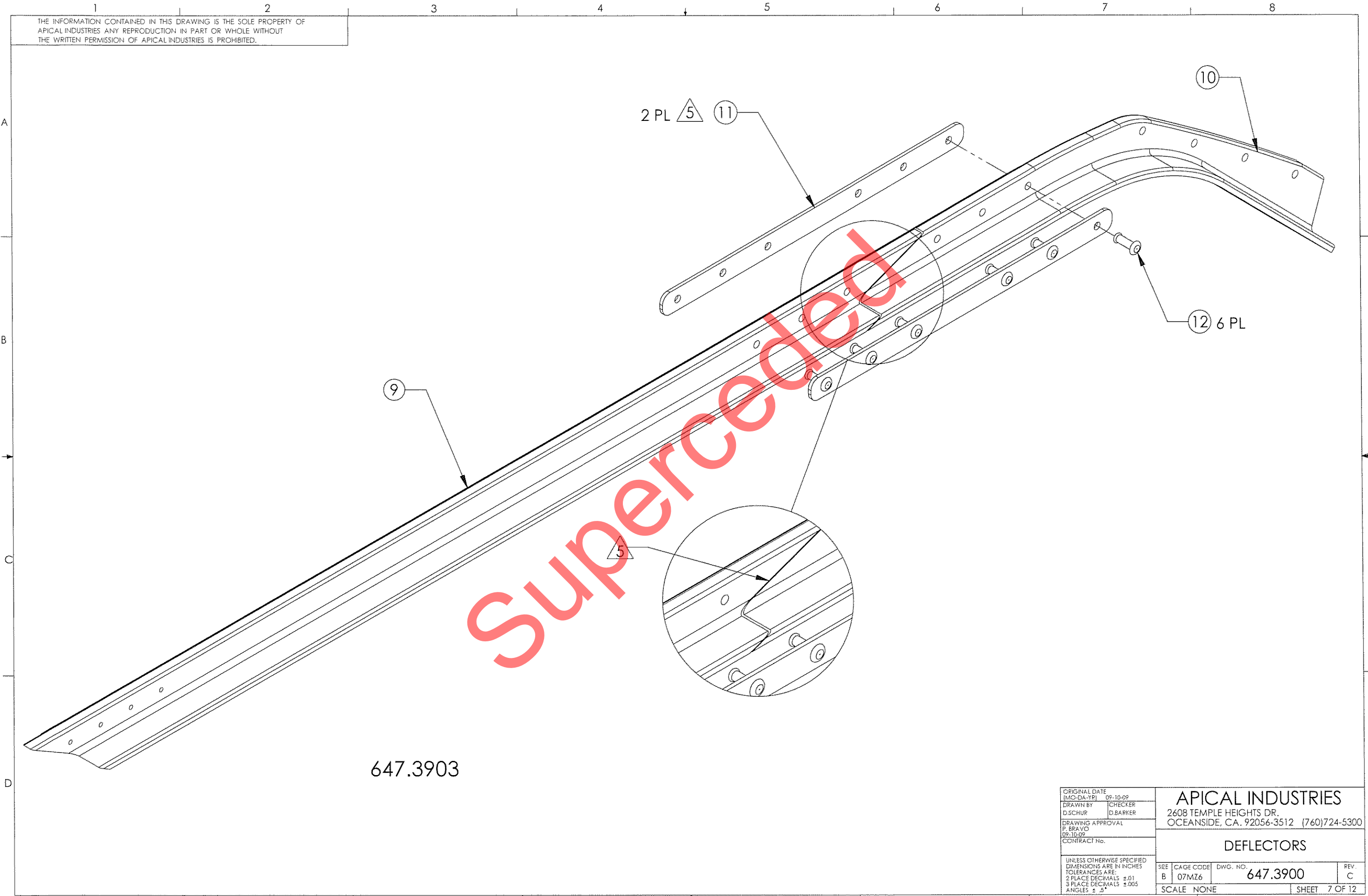
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3 PLACE DECIMALS ±.005  
ANGLES ±.5°

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2608 TEMPLE HEIGHTS DR.  
OCEANSIDE, CA. 92056-3512 (760)724-5300

DEFLECTORS

SIZE	CAGE CODE	DWG. NO.	REV.
B	07MZ6	647.3900	C
SCALE NONE		SHEET 6 OF 12	

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647.3903

ORIGINAL DATE  
IMO-DA-YR 09-10-09  
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CHECKER  
D.BARKER  
DRAWING APPROVAL  
P. BRAVO  
09-10-09  
CONTRACT No.

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES ARE:  
2 PLACE DECIMALS  $\pm .01$   
3 PLACE DECIMALS  $\pm .005$   
ANGLES  $\pm .5^\circ$

APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300			
DEFLECTORS			
SSE B	CAGE CODE 07MZ6	DWG. NO. 647.3900	REV. C
SCALE NONE		SHEET 7 OF 12	

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42.760<sup>+.010</sup>  
-.000

6.480<sup>+.010</sup>  
-.000

9.000

0

.171

.271

.646

1.000

2.699

4.389

5.054

6.480

1.732

33.205

37.040

42.040

42.171

42.784

ORIGINAL DATE (MO-DA-YR) 09-10-09		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300		
DRAWN BY D.SCHUR	CHECKER D.BARKER			
DRAWING APPROVAL P. BRAVO 09-10-09		DEFLECTORS		
CONTRACT No.		SIZE B	CAGE CODE 07MZ6	DWG. NO. 647.3900
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SCALE NONE	REV. C	SHEET 8 OF 12

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647.3915

AM

AN

AR

AR

$\phi .192$

$\phi .116$

0  
.375

.400

0

2.532

4.032

5.532

25.237

26.237

27.237

28.237

DETAIL AM

R.125

$.340^{+.000}_{-.005}$

.813

R.0625 OR 45° CHAMFER X .0625  
4 PL

.188

.830

2.000

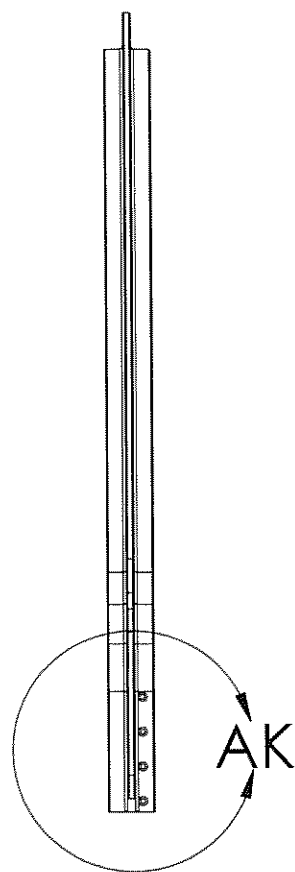
SECTION AR-AR

DETAIL AN

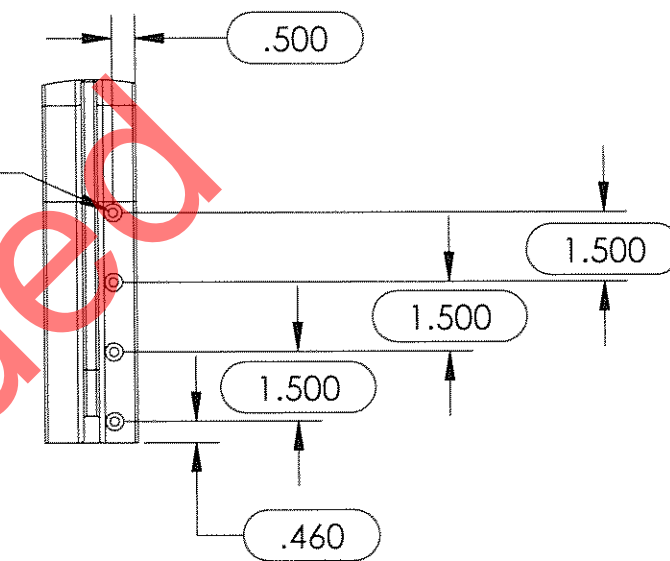
ORIGINAL DATE (MO-DA-YR) 09-10-09		APICAL INDUSTRIES	
DRAWN BY D.SCHUR		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKER D.BARKER		DEFLECTORS	
DRAWING APPROVAL P. BRAVO		SIZE B	REV. C
09-10-09		CAGE CODE 07MZ6	DWG. NO. 647.3900
CONTRACT No.		SCALE NONE	SHEET 9 OF 12
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$ ANGLES $\pm .5^\circ$			



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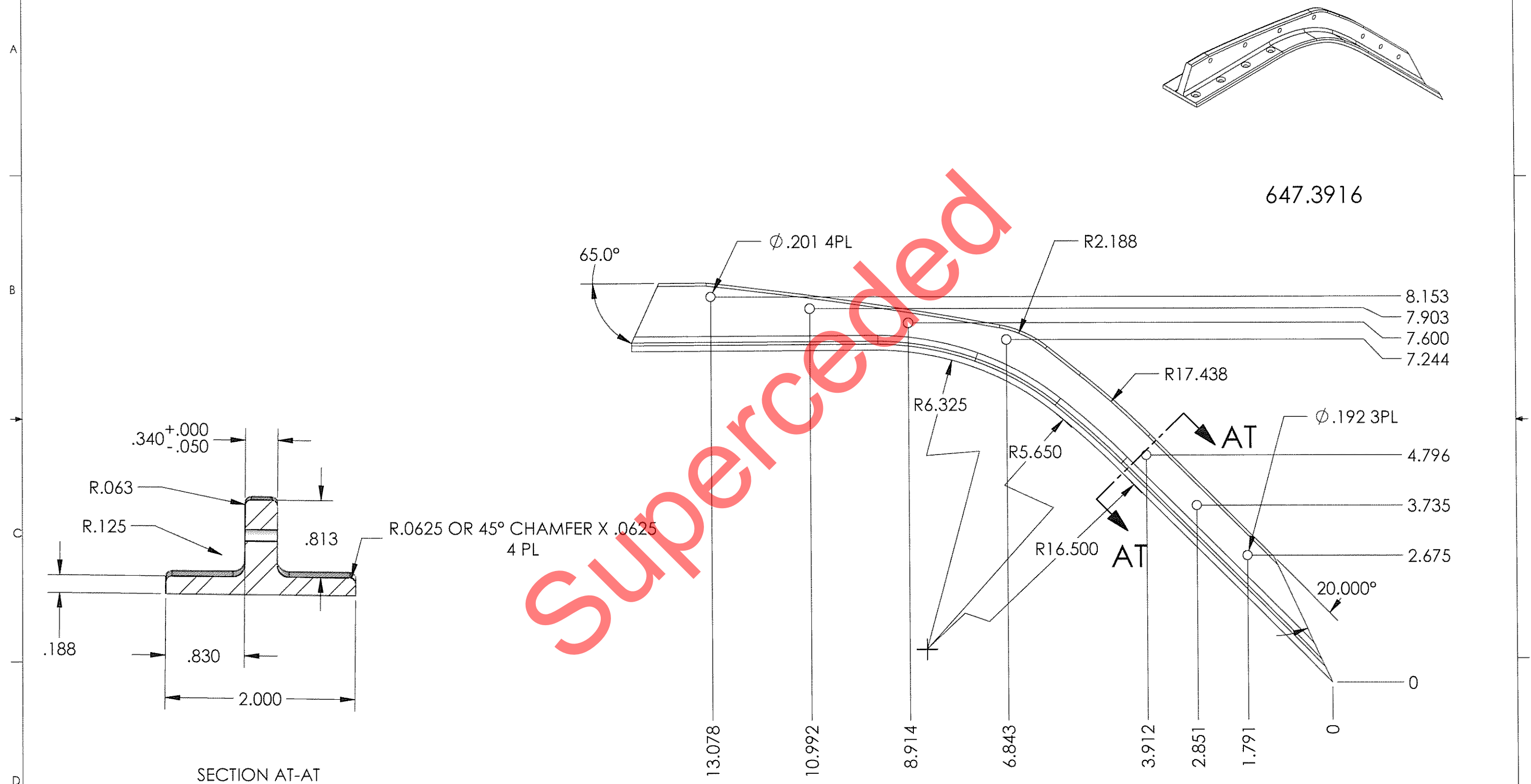
4X  $\phi .196 \pm .010$  THRU ALL  
 $\checkmark \phi .385 \pm .020 \times 100^\circ \pm 1.000^\circ$



647.3915

ORIGINAL DATE (MO-DA-YR) 09-10-09		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300		
DRAWN BY D.SCHUR	CHECKER D.BARKER			
DRAWING APPROVAL P. BRAVO 09-10-09		DEFLECTORS		
CONTRACT No.		SIZE B	CAGE CODE 07M26	REV. C
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$ ANGLES $\pm .5^\circ$		DWG. NO. 647.3900	SHEET 10 OF 12	
		SCALE NONE		

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ORIGINAL DATE (MO-YR-DB) 09-10-09		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300			
DRAWN BY D.SCHUE	CHECKER D.BARKER				
DRAWING APPROVAL 7 894 VO					
09-10-09 CONTRACT No.		DEFLECTORS			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± .5°					
SHEET	CAGE CODE B 07M26	DWG. NO. 647.3900	REV. C		
SCALE NONE			SHEET	11 OF 12	

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